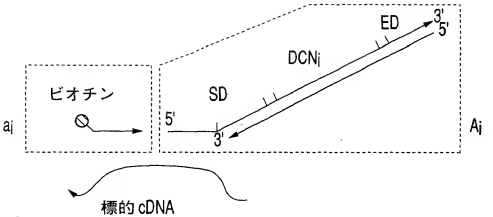


FIG. 1

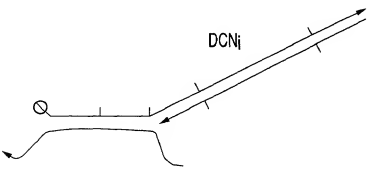


FIG. 2

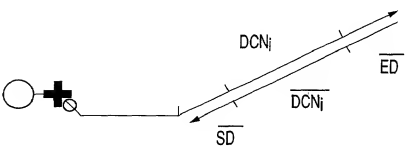


FIG. 3

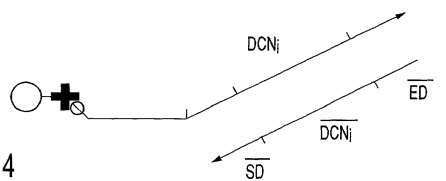


FIG. 4

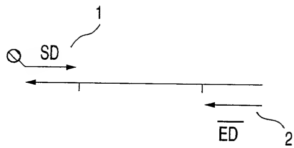


FIG. 5

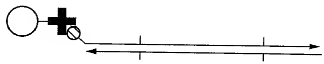


FIG. 6

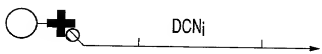


FIG. 7

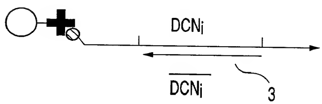


FIG. 8

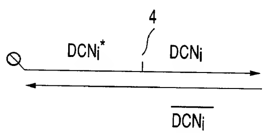


FIG. 9

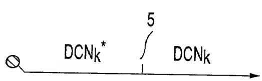


FIG. 10

FIG. 11

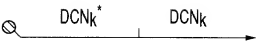
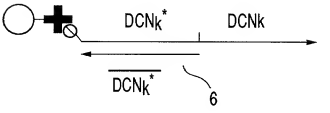


FIG. 12



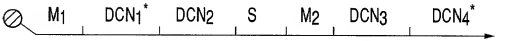


FIG. 13

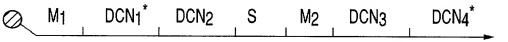


FIG. 14

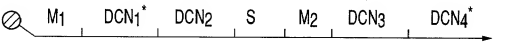


FIG. 15

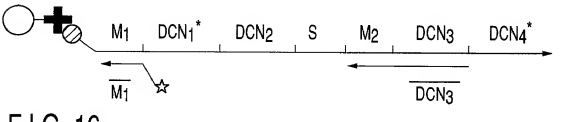


FIG. 16

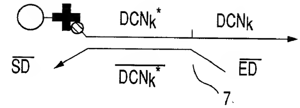


FIG. 17

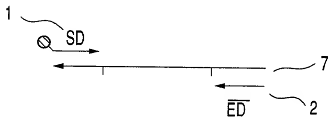


FIG. 18

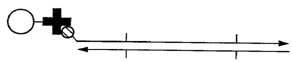


FIG. 19

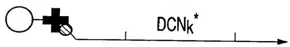


FIG. 20

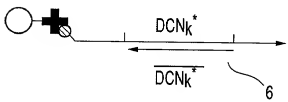


FIG. 21

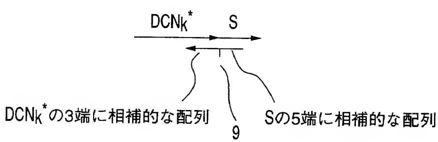
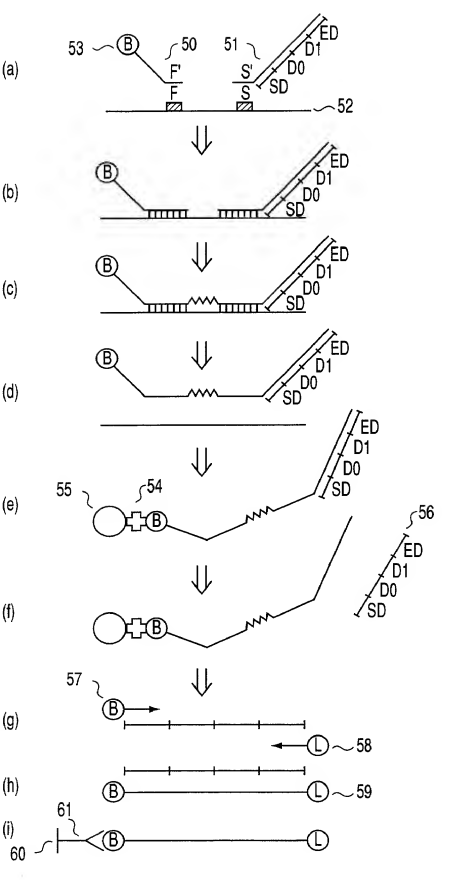


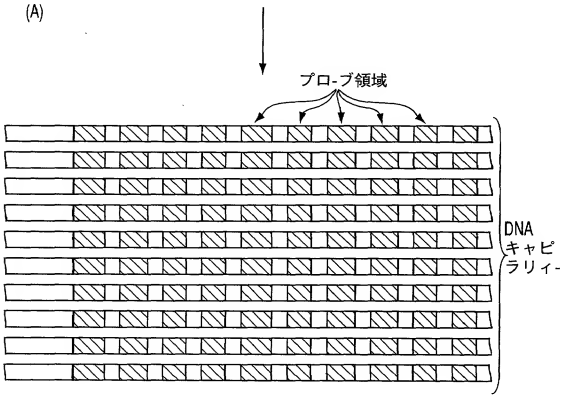
FIG. 22

FIG. 23



		D0									
		D0-1	D0-2	D0-3	D0-4	D0-5	D0-6	D0-7	D0-8	D0-9	D0-10
D1	D1-1	1									
	D1-2										
	D1-3										
	D1-4										
	D1-5										
	D1-6										
	D1-7										
	D1-8										
	D1-9										
	D1-10										

(A)



(B)

F I G. 24

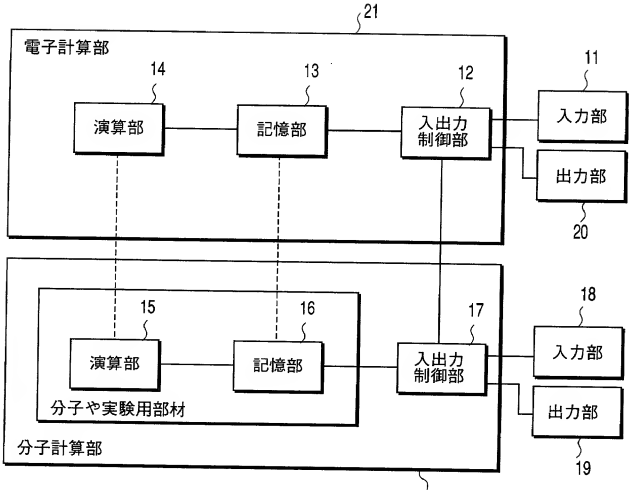


FIG. 25

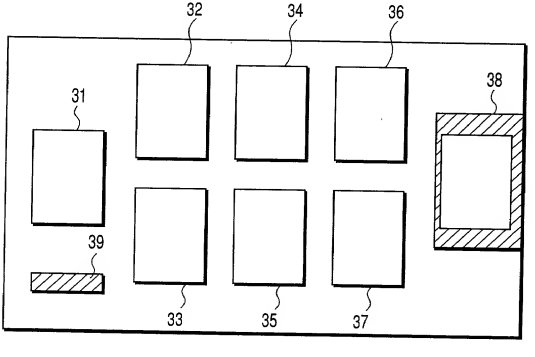


FIG. 28

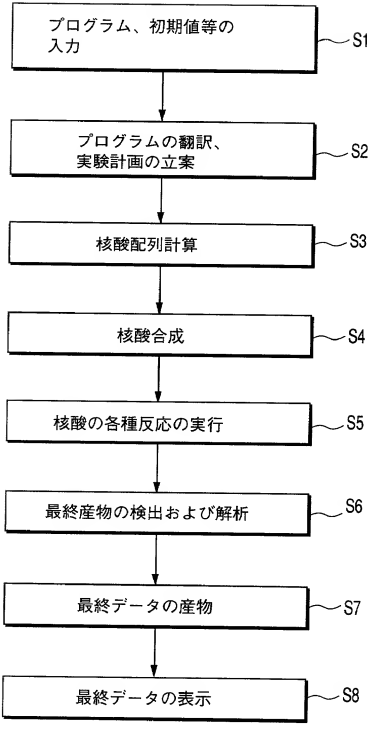


FIG. 26

装置の構成

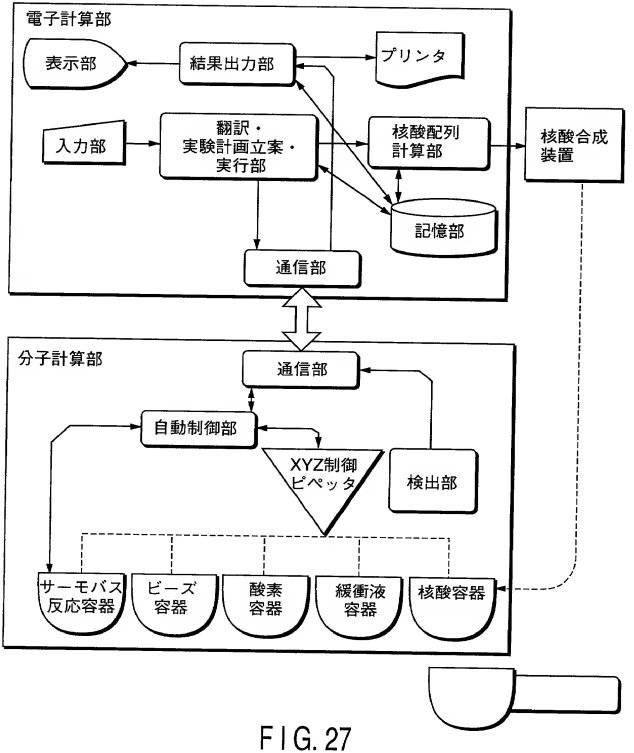


FIG. 27

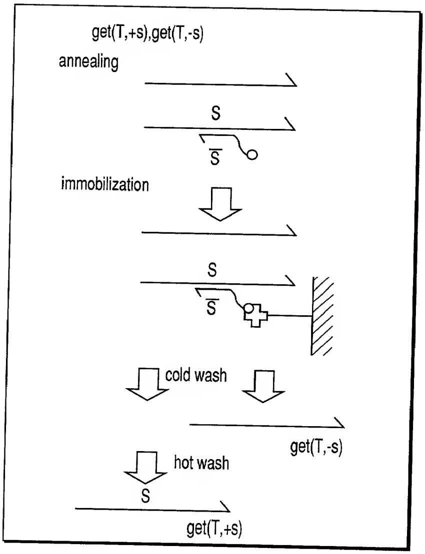

get(T,+s),get(T,-s)
annealing
S
S
immobilization
S
S
cold wash
get(T,-s)
hot wash
S
get(T,+s)

FIG. 29

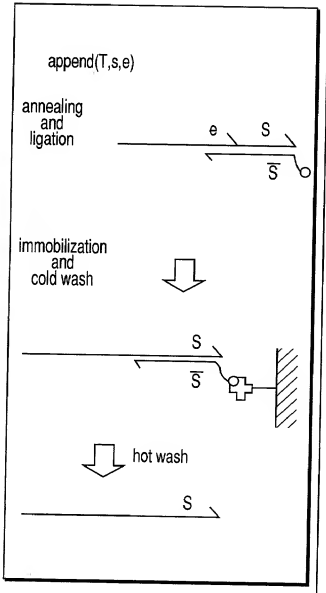


FIG. 30

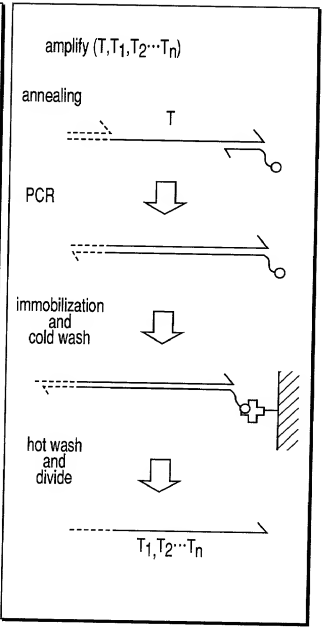


FIG. 31

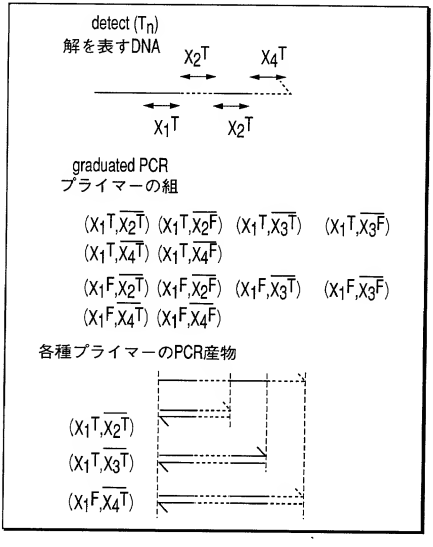

detect (T_n)
解を表すDNA
X_2T
X_4T
X_1T
X_2T
graduated PCR
プライマーの組
$(X_1T,\overline{X_2T})$ $(X_1T,\overline{X_2F})$ $(X_1T,\overline{X_3T})$ $(X_1T,\overline{X_3F})$
$(X_1T,\overline{X_4T})$ $(X_1T,\overline{X_4F})$
$(X_1F,\overline{X_2T})$ $(X_1F,\overline{X_2F})$ $(X_1F,\overline{X_3T})$ $(X_1F,\overline{X_3F})$
$(X_1F,\overline{X_4T})$ $(X_1F,\overline{X_4F})$
各種プライマーのPCR産物
$(X_1T,\overline{X_2T})$
$(X_1T,\overline{X_3T})$
$(X_1F,\overline{X_4T})$

FIG. 32

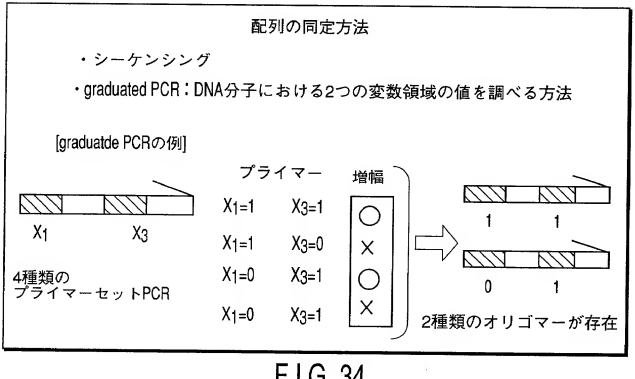

配列の同定方法
・シーケンシング
・graduated PCR：DNA分子における2つの変数領域の値を調べる方法
[graduatde PCRの例]
プライマー
増幅
X_1
X_3
4種類の
プライマーセットPCR
X_1=1 X_3=1
X_1=1 X_3=0
X_1=0 X_3=1
X_1=0 X_3=1
1 1
0 1
2種類のオリゴマーが存在

FIG. 34

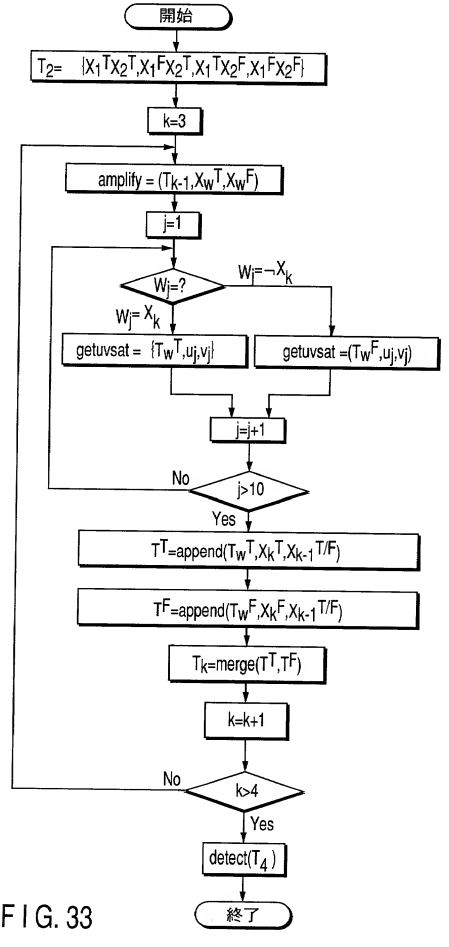

開始
T_2= {$X_1{}^TX_2{}^T$,$X_1{}^FX_2{}^T$,$X_1{}^TX_2{}^F$,$X_1{}^FX_2{}^F$}
k=3
amplify = (T_{k-1},$X_w{}^T$,$X_w{}^F$)
j=1
W_j=?
W_j=¬X_k
W_j= X_k
getuvsat = {$T_w{}^T$,u_j,v_j}
getuvsat =($T_w{}^F$,u_j,v_j)
j=j+1
No
j>10
Yes
T^T=append($T_w{}^T$,$X_k{}^T$,$X_{k-1}{}^{T/F}$)
T^F=append($T_w{}^F$,$X_k{}^F$,$X_{k-1}{}^{T/F}$)
T_k=merge(T^T,T^F)
k=k+1
No
k>4
Yes
detect(T_4)
終了

FIG. 33

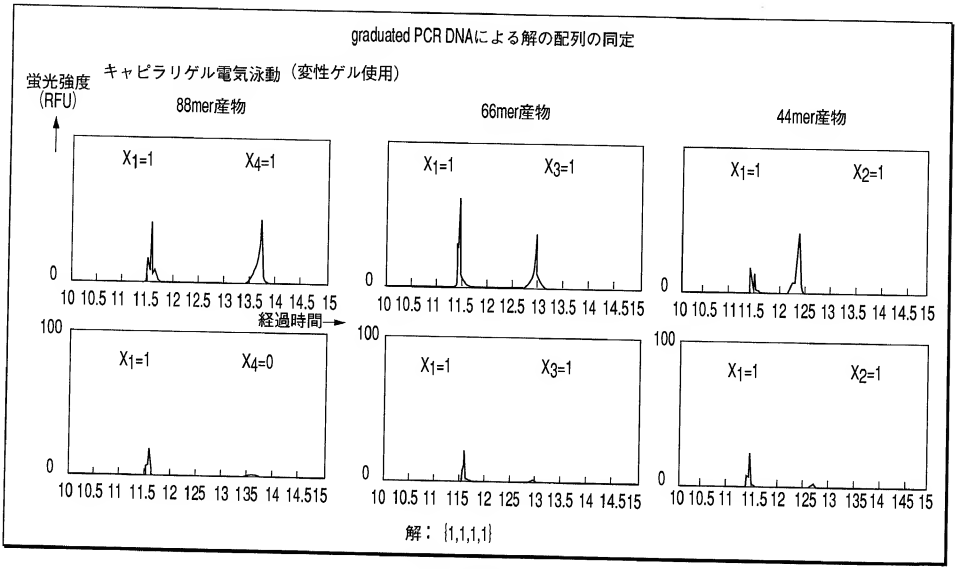


FIG. 35